| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|--|-----------------|---------------------|---------|------------------|
| S1 | 1 | ("6310902").PN. | USPAT; USOCR | OR | OFF | 2005/03/01 17:40 |
| S2 | 81 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and width | USPAT | OR | OFF | 2005/03/02 17:50 |
| S3 | 435 | ((absorption or active) near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and width | USPAT | OR | OFF | 2004/08/19 14:11 |
| S4 | 140 | ((absorption or active) near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and (width same quantum) | USPAT | OR | OFF | 2004/08/19 17:30 |
| S5 | 99 | ((absorption or active) near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and (width same quantum) and (width same (ratio or differen\$3 or greater or larger or smaller)) | USPAT | OR | OFF | 2004/08/19 19:51 |
| S6 | 55 | ((absorption or active) near2 layers) and (clad near2 layer\$1) and (quantum near2 well\$1) and (width same quantum) and (width same (ratio or differen\$3 or greater or larger or smaller)) | USPAT | OR | OFF | 2004/08/19 20:21 |
| S7 | 22 | ((absorption or active) near2 layers) and (clad near2 layer\$1) and ((quantum adj well\$1)near2 layers) and (width same quantum) and (width same (ratio or differen\$3 or greater or larger or smaller)) | USPAT | OR | OFF | 2004/08/19 20:21 |
| S8 | 22 | ABSORPtion.ti. and modulator.ti. | USPAT | OR | OFF | 2004/08/20 15:52 |
| S9 | 195 | 359/245,248,260,276,284,285. ccls. and ABSORPtion.bsum. and modulator.bsum. | USPAT | OR | OFF | 2004/08/20 16:10 |
| S10 | 145 | 372/50,45,26.ccls. and ABSORPtion.bsum. and modulator. bsum. | USPAT | OR | OFF | 2004/08/20 15:57 |
| S11 | 156 | 385/1,2,14,131.ccls. and ABSORPtion.bsum. and modulator. bsum. | USPAT | OR | OFF | 2004/08/20 15:57 |
| S12 | 13 | 359/240.ccls. and ABSORPtion. bsum. and modulator.bsum. | USPAT | OR | OFF | 2004/08/20 16:10 |
| S13 | 2 | (("6008066") or ("5878066")).PN. | USPAT; USOCR | OR | OFF | 2004/08/23 09:48 |
| S14 | 4 | Young and Shik and Kang.in. | USPAT | OR | OFF | 2005/03/01 17:40 |

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|-----|----|--|----------|------|-----|------------------|
| S15 | 5 | Young and Shik and Kang.in. | US-PGPUB | OR | OFF | 2005/03/01 17:40 |
| S16 | 1 | ("6008066").PN. | USPAT | OR. | OFF | 2005/03/01 19:12 |
| S17 | 88 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and width | USPAT | OR | OFF | 2005/03/01 23:20 |
| S18 | 44 | S17 and (width same (absorpt\$4 or quantum)) | USPAT | OR | OFF | 2005/03/01 23:11 |
| S20 | 24 | S18 and (different same (absorpt\$4 or quantum)) | USPAT | OR | OFF | 2005/03/01 23:11 |
| S21 | 77 | S17 and (thickness same (absorpt\$4 or quantum)) | USPAT | OR | OFF | 2005/03/01 23:20 |
| S22 | 47 | S21 and (differen\$2 same (thickness)) | USPAT | OR | OFF | 2005/03/01 23:11 |
| S23 | 24 | S21 and (differen\$2 with (thickness)) | USPAT | OR | OFF | 2005/03/01 23:20 |
| S25 | 21 | S23 and (thickness with (absorpt\$4 or quantum)) | USPAT | OR | OFF | 2005/03/01 23:12 |
| S26 | 84 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and width and thickness | USPAT | OR | OFF | 2005/03/01 23:20 |
| S27 | 50 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and (absorption same quantum) and (absorption same thickness) | USPAT | OR | OFF | 2005/03/02 17:55 |
| S28 | 27 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and (absorption same quantum) and (absorption same thickness) and (thickness same quantum) | USPAT | OR | OFF | 2005/03/02 17:55 |
| S29 | 17 | (absorption near2 layer\$1) and (clad near2 layer\$1) and (quantum near2 well\$1) and (absorption with quantum) and (absorption same thickness) and (thickness with quantum) | USPAT | OR . | OFF | 2005/03/02 17:56 |
| S30 | 1 | ("5580818").PN. | USPAT | OR | OFF | 2005/03/02 22:43 |